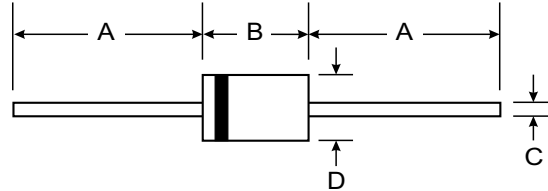


## Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Superfast recovery time

Pb / RoHS Free



## Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.339 gram

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

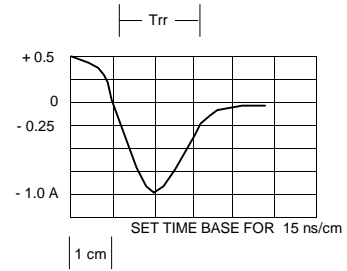
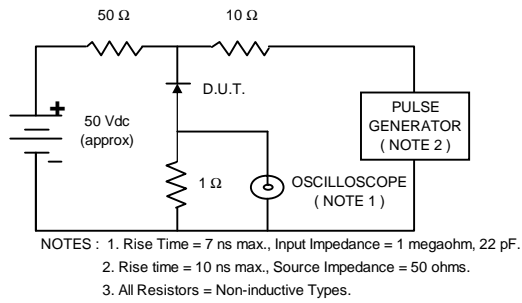
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

RATING	SYMBOL	11DF3	11DF4	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	300	400	V
Maximum RMS Voltage	V <sub>RMS</sub>	210	280	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	300	400	V
Maximum Average Forward Current T <sub>a</sub> = 57 °C	I <sub>F(AV)</sub>	1.0		A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30		A
Maximum Peak Forward Voltage at I <sub>F</sub> = 1.0 A	V <sub>F</sub>	1.25		V
Maximum DC Reverse Current at V <sub>RRM</sub>	I <sub>R</sub>	10		μA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	35		ns
Junction Temperature Range	T <sub>J</sub>	- 65 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150		°C

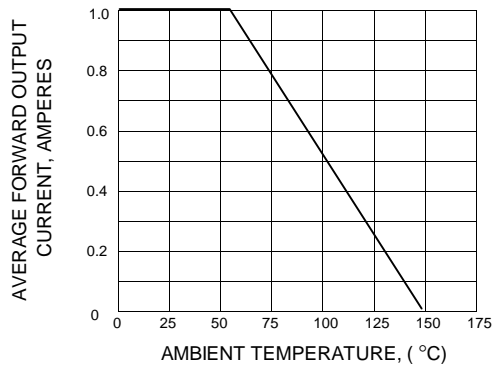
**Note:**

( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25 A.

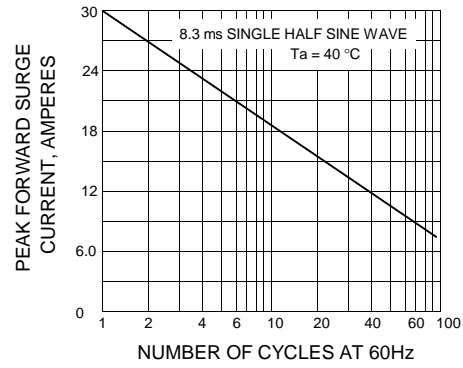
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



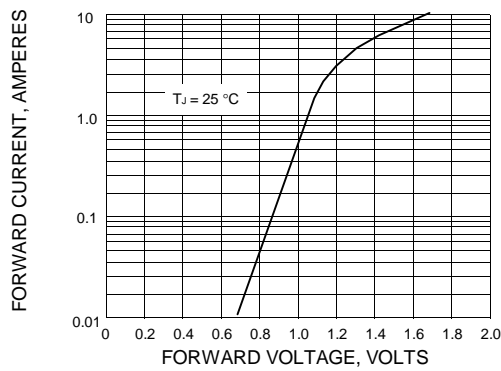
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

